

# POPULAR SCIENCE.

Cleanings from the World of House-  
hold and the Kitchen.

The popular fallacy that house-  
plants poison the air of a room by the  
evaporation of water, during the night,  
has been demonstrated by recent  
experiments of Prof. Kedzie of the  
Michigan Agricultural College. To make  
a conclusive test, Kedzie placed a  
number of plants in a room, and, in-  
stead of taking the air from a room contain-  
ing a few plants only, the professor  
gathered it from a room containing  
many more than twelve hours; and  
the plants which had been growing in  
the room, the analysis of the air from  
such a room would certainly dis-  
close this fact. The professor found  
that the air from a room containing  
shortly before sunrise, from different  
parts of the room, the analysis of which  
gave 4.11, 4.00, 4.00 parts of carbonic  
acid in 10,000 of air, or an average of  
4.03 in 10,000 while the out-door air  
contained 4 parts of carbonic acid, pro-  
ving that the air in the green-house was  
better than "pure country air."

THE HUBS AS ARCHITECTS.—Man is  
obliged to use a sort of engine for  
measurement—any and all things  
—to produce his buildings and to  
guide him; the best he can do is to  
work immediately from his mind, with-  
out instruments or tools of any kind.  
"She has successfully solved a problem  
in higher mathematics, the discovery  
of the differential calculus, the dis-  
covery of a half, alone enables us  
to solve all without the greatest diffi-  
culty." "The hub of the wheel is the  
of the colls is always just so, that, if  
the surfaces on which she works are un-  
equal, still, the hub, through it, is  
in the true direction, and the angle  
of the two axes forms the angle of 60  
degrees as accurately as if there were  
none. The hub, in fact, is the true  
of the moment and the place is marvelous.  
In order to test this, the hub was  
glazed the interior of a large wheel,  
the exception of certain bits of wood  
fastened on the sides. The hub cannot  
make their work with glass, and they  
began to build horizontally from  
side to side; in other positions, other  
of glass in different positions, and they  
curved their combs in strange  
shapes, in order to make them reach the  
wooden supports. He says that the  
proceeding described is a very simple  
ast, as glass was not a substance  
against which he could be warned by  
nature, and that he changed the di-  
rection of the work between the  
glass, at the distance previously suitable  
for making the necessary turns—en-  
larging the cells on the outer side,  
and on the inner side diminishing the  
proportionately. As the different in-  
creases in the cells, the different in-  
sides, there must have been some means  
of communicating the proportion to be  
observed; while the bottom being com-  
mon to both sets, the difference in  
of this regularly varying their dimen-  
sions must have been great indeed.

THE FOUNDATION OF FLOWERS BY  
INSECTS.—Among the numerous dis-  
coveries with which vegetable physi-  
ology has of late been enriched, none  
more interesting or more curious than  
the part taken by insects in the develop-  
ment of flowers. Some flowers seem to  
appeal to the insect, and others to the  
leaves by exhibiting the brightest colors,  
and most beautiful and varied forms,  
beside secreting a nectar, which is  
upon which their visitor stops. The in-  
thing can be more wonderful than the  
thousands of different species of corolla  
of stamens, and yet all will all  
be arranged to do not only to cover the  
insect, in spite of himself, with pollen,  
but, at the same time, to completely  
the pollen and stigma of the  
same flower. Often the mechanical dis-  
position of the various parts of the  
blossom and the position of the  
of the entrance of the intruder is ex-  
tremely complicated, as Darwin has  
demonstrated in the case of the  
orchideads; but there are other flow-  
ers of which the construction is easily  
understood and which are equally in-  
genious and surprising. In some  
slights upon the lower lip of the corolla,  
and, to reach the hidden nectar, tries to  
detach the tip of the tongue, and, in-  
stead of pushing behind it the short  
branches of the two levers formed by  
the connectives, at the same time the  
arched upper parts of the corolla, and  
open the body of the bee, applying the  
open anthers to its abdomen so that the  
left, of which the pollen is very  
short, the stigmas can receive but little  
pollen; but when the bee attempts to  
stigma grapple the elongated  
pollen, and this becomes founda-  
tion. Since the pollen of the salvia is  
deposited on the lower lip of the insect,  
it is evident that it can be given to the  
flower of another species, the construc-  
tion of the substance upon which the  
While, whatever may be the flowers  
another anther, and the pollen of the  
it is charged is not rubbed off or wasted,  
as it remains intact until a proper bloom-  
ing is entered.—*Scientific American.*

## THE HORSE.

Charles Dickens's opinion of the horse  
is found in his writings, as follows: "I  
object to the horse as a creature, and  
the horse, I protest against the con-  
ventional idea of beauty as attached to  
that animal. I do not like the horse,  
his forehead too low, and his legs (ex-  
cept in the case of the cart horse) ridi-  
culously thin for his body. Again, con-  
sidering how high the collar is, I ob-  
ject to the contemptible delicacy of his  
constitution. Is he not the slightest  
catch cold as easy as a horse? Does  
not a horse, for all his appearance of su-  
perior strength, strain his fetlock as easily  
as I strain my ankle? Furthermore,  
to take him from another point of view,  
what a helpless wretch he is! No fine  
sights require more than a horse, more  
than a horse. Other animals can make  
their own toilet; he must have a groom.  
You will tell that this is because we  
want to make him look like a gentleman.  
Glossy! Come home with me and see  
my cat—my clever cat, who can groom  
herself! Look at the horse's legs! See  
how the intelligent creature curries him  
himself with his own honest teeth.  
Then, again, when he is in a bad way,  
what a poor, nervous fool! He will  
start at a white stone or a piece of paper  
on the road as if it were a lion. His  
eyes, when he hears a noise, are so  
astonished to, is to run away from it.  
What do you say to these two com-  
mon instances of the conduct and con-  
the absurdly over-praised animal? I  
might multiply them to two hundred if  
I chose to excruciate my mind and waste  
my time, which I can never do, pre-  
fer coming at once to my new horse,  
against the horse, which is the most  
of all because it affects his moral  
character. I accuse him boldly, in his  
capacity of servant to man, of sloth and  
treachery. I brand him, and I do not  
matter how mild he may look about the  
eyes or how sleek he may be in the  
coat, as a systematic betrayer, whenever  
he can get the chance, of the confidence  
reposed in him.

A CHILD'S DYSTO REQUEST.—The Mem-  
phis Ledger says: "A little, crumpled  
package arrived at the mayor's office  
this morning, which has a touch of his-  
tory. It was sent by John A. Hughes,  
a merchant at Springfield, Illinois, who  
has been active in collecting for the  
distressed people. It was tightly  
rolled up in two or three sheets of  
white letter paper, and contained  
five dollars and fifty cents in all in  
one, two and three cent pieces and nick-  
els; also two faded pieces of paper cur-  
rently the old five cent piece. Evidently  
this was some child's treasure, the ac-  
cumulations of a little boy for  
months or years.  
"Little Lilly's money," on the other  
paper, written in a different hand. From  
a dying bequest. No other explanation  
was given.  
—When a widow resumes corsets she  
is evidently sad.

## THE POSTAL TELEGRAPH.

From the Boston Advertiser.

Four years ago, Mr. Gardner G.  
Hubbard, of this city, in an address to  
the Board of Trade, stated that the  
profits of the Western Union telegraph  
company were high, arbitrary and in-  
regular; that a large reduction in rates  
could be made without a diminution of  
the profits, and that the company was  
conducting its business without a correspond-  
ing increase of expenses, and that a still  
further reduction of rates and of tariff  
could be effected by the adoption of the  
postal telegraph. He has advocated his  
reform before congress, and obtained fa-  
vorable reports from the various com-  
mittees both of the Senate and House.  
Mr. Orton, in his annual re-  
port to the stockholders of the Western  
Union telegraph company, says these  
efforts have induced the company "to  
proceed more rapidly with increasing  
facilities and reducing the rates than  
they should otherwise have done."  
The average rates in 1889 were 97;  
now, according to the report, they are  
61. Officers there, 3,469, now 5,740,  
a reduction of 381 per cent in the rates,  
and an increase of 50 per cent in the  
profits.

Mr. Hubbard said that large reduc-  
tions in the rates could be made without  
any loss of profit. This Mr. Orton  
denied, alleging that the expenses  
increased in proportion to the rates,  
and that a large reduction of rates  
would result in a corresponding loss of  
profit. The net profits when the average rate  
was 67 were \$2,334,000; at 91 they were  
\$2,334,000; at 100 they were \$2,334,000;  
at 110 they were \$2,334,000; at 120 they  
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